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In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A blow-off valve assembly comprising:

a valve body;

a blow-off valve disposed in the valve body; and

-and configured to prevent coolant flow when a coolant pressure is below a threshold; and

an actuator disposed in the valve body and configured to electro-mechanically activate the valve under certain conditions independent of coolant pressure [[.]], at least when the coolant pressure is below a threshold;

wherein the blow-off valve is configured to:

prevent coolant flow when the coolant pressure is below the threshold; and allow coolant flow when the coolant pressure is above the threshold, independently of the actuator.

- 2. The valve assembly of claim 1 wherein the valve includes a conical (Original) end and is configured to extent axially to seal a coolant path of a cooling system.
- 3. The valve assembly of claim 2 wherein the valve further comprises a (Original) spring connected to another end of the valve and is configured to bias the valve against a seat of the valve body to seal the coolant path.
- 4. (Previously Presented) The valve assembly of claim 3 wherein the actuator includes a plunger connected to the valve body configured to unseat the valve under the certain conditions.
- 5. (Original) The valve assembly of claim 4 wherein the plunger includes an electromechanical solenoid controllable by an engine control unit (ECU) to impart a force on the valve to overcome a bias placed on the valve.
- 6. (Original) The valve assembly of claim 5 wherein the ECU activates the electromechanical solenoid based on engine load and speed.

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7. (Original) The valve assembly of claim 1 wherein the valve body further includes

at least one inlet port configured to receive pressurized coolant circulating through a cooling

system.

8. (Original) The valve assembly of claim 1 wherein the engine is disposed in an

outboard motor.

9. (Currently Amended) An outboard motor comprising:

an internal combustion engine;

a cooling system having a number of coolant passages to circulate coolant about the

internal combustion engine;

a blow-off valve assembly disposed in a coolant passage, and biased to seal the

cooling coolant passage when a pressure of the coolant is below a threshold;

an electro-mechanical actuating assembly configured to impart a force on the blow-

off valve sufficient to overcome the sealing bias of the blow-off valve assembly, and open the

coolant passage, at least when the pressure of the coolant is below the threshold; and

an ECU configured to activate the electro-mechanical actuating assembly to maintain

a desired operating temperature [[.]];

when the coolant pressure is above the threshold, the sealing bias of the blow-off

valve is overcome, opening the coolant passage independently of the electro-mechanical

actuating assembly.

10. (Original) The outboard motor of claim 9 wherein the ECU activates the electro-

mechanical actuating assembly to unseat the blow-off valve if coolant pressure is below the

threshold and, if so, transmit an actuating commence signal to the actuating assembly to open

the blow-off valve.

11. (Original) The outboard motor of claim 10 wherein the actuating assembly

includes a solenoid controlled plunger and the ECU is further configured to transmit the

actuating command signal to the solenoid controlled plunger based on engine speed and

engine load.

The outboard motor of claim 11 wherein the ECU is further configured 12. (Original)

to compare an actual engine speed and load with a predefined map of engine speed and load

data.

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13. (Original) The outboard motor of claim 9 wherein the ECU is further configured

to transmit the actuating command signals to the actuating assembly to maintain a relatively

constant engine temperature for a specific engine speed and load.

14. (Original) The outboard motor of claim 9 wherein the ECU is further configured

to regulate the actuating assembly such that a maximum engine temperature is not exceeded.

15. (Currently Amended) A method of controlling the temperature of an outboard

marine engine comprising the steps of:

thermostatically regulating engine temperature when the engine is operating under a

first set of conditions;

electro-mechanically opening a blow-off valve to reduce engine temperature when the

engine is operating under a second set of conditions; and

hydraulically opening the blow-off valve to reduce coolant pressure in the coolant

system when the engine is operating under a third set of conditions;

wherein the first set of conditions is defined by an engine temperature, the second set

of conditions is defined by at least engine load, and the third set of conditions is defined by at

least coolant pressure.

16. (Canceled)

The method of claim 15 wherein the step of electro-mechanically 17. (Original)

opening the blow-off valve includes the step of actuating an electro-mechanical solenoid

designed to impart a force on the blow-off valve sufficient to unseat the blow-off valve.

18. (Original) The method of claim 17 further comprising the step of actuating the

electro-mechanical solenoid by transmitting control signals based on engine speed and load.

19. (Original) The method of claim 15 further comprising the step of comparing

instantaneous engine operating conditions to a look-up table of data detailing under what

engine operating conditions the blow-off valve should be electro-mechanically opened.

20. (Original) The method of claim 15 wherein the second set of conditions includes

an engine speed of at least 2500 PRM.